

Providing the high-speed digital testing industry's only vertical PCB launch configuration, Molex's innovative Precision 2.4mm Compression-Mount Test Connectors optimize design flexibility and reduce installation time while achieving 50 GHz analog performance or over 20 Gbps digital signals

Realize improved testing capability with Molex's Precision 2.4mm Compression-Mount Test Connectors. Designed with a vertical launch configuration and a unique compression-mount design, customers can create test points virtually anywhere on the PCB, enabling unparalleled design flexibility. The Precision 2.4mm Compression-Mount Test Connectors mate to 2.4mm male (plug) connectors, available on the customer's test equipment cable end. The Precision 2.4mm Compression-Mount Test Connectors are an extension of the Precision Optimized SMA Test Connectors (Series 73251).

FEATURES

Vertical PCB launch configuration

Unique compression-mount design using two 0-80 UNF screws

Capable of handling 50 GHz analog signals

2.4mm mating interface

Integrated center pin design

Stainless-steel body

BENEFITS

Can be located anywhere on the PCB for increased PCB density

Reduces installation time by eliminating soldering from the process. Accommodates a wide range of board thicknesses including 0.57 to 2.79mm; more options available upon request. Provides a continuous ground connection between the connector and PCB

Provides high-bandwidth performance for high-speed (over 20 Gbps digital signals) digital test boards

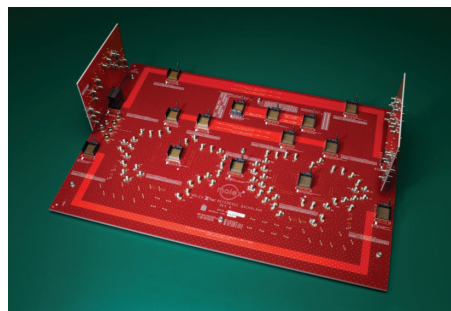
Compatible with network analyzer cables

Capable of 1.2:1 VSWR at 50 GHz. The interface dimensions are optimized after installing on the PCB. Provides low reflections for accurate measurements

Durable housing to withstand over 500 mating cycles

MARKETS AND APPLICATIONS

- Datacommunication and Telecommunication Applications
 - Test and Characterization Boards
 - Reference Backplanes
 - High-speed Backplanes
- Test and Measurement Equipment
- Chip Manufacturers



Reference Backplane

Precision Test Connectors 2.4mm Compression-Mount

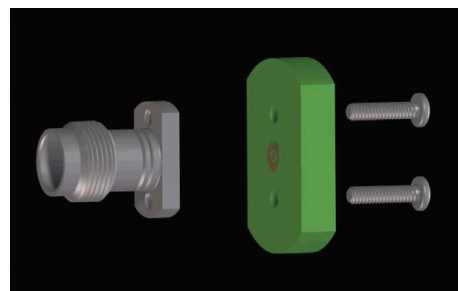
**73387 2.4mm Vertical
Compression-Mount Test
Connectors, 50 GHz**



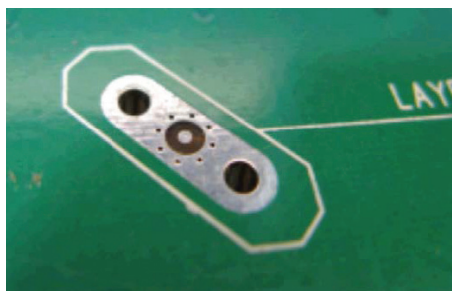
*Precision Test Connectors 2.4mm
Vertical Compression-Mount*

ADDITIONAL PRODUCT FEATURES

- Innovative design includes two 0-80 UNF screws for mounting the receptacle to the PCB, eliminating soldering



Mounting method illustration depicting two 0-80 UNF screws for mounting the receptacle to the PCB, eliminating soldering



Actual launch pad on which the connector mounts

Precision Test Connectors 2.4mm Compression-Mount

73387 2.4mm Vertical
Compression-Mount Test
Connectors, 50 GHz

SPECIFICATIONS

Reference Information

Packaging: Tray
Mates With: 2.4mm Male Plug
(not sold by Molex)
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical

Contact Resistance:
Center Contact — $\leq 3 \text{ m}\Omega$
Outer Contact — $\leq 2 \text{ m}\Omega$
Dielectric Withstanding Voltage:
500V RMS
Insulation Resistance: 5,000 Megohms
Voltage Standing Wave Ratio:
DC to 26.5 GHz — 1.10 max.
26.5 to 40 GHz — 1.15 max.
40 to 50 GHz — 1.20 max.
RF Leakage: $\leq -100\text{dB}$
RF Insertion Loss:
 $0.03 \times \sqrt{f} \text{ (GHz) dB max.}$

Mechanical

Mating Force: .23N meters max.
Durability (min.): 500 cycles

Physical

Housing: Stainless Steel
Contact: Beryllium Copper
Plating:
Center Contact — Gold (Au)
Under Plating — Nickel (Ni)
PCB Thickness: 0.57 to 2.79mm =
standard; more options available upon
request
Operating Temperature: 0 to +165 °C

ORDERING INFORMATION

Mounting Screw Length	Order No.
4.76mm	73387-0020
6.35mm	73387-0021
None	73387-0022